RTD Probe-Cut-To-Length



Variety of Configurations Single and Dual Elements Stainless Steel Case



The RTD Probe-Cut-To-Length is

constructed with a Stainless Steel case. The sensing element is embedded into the tip of the sheath. With the element located in the tip of the case this is the area that needs to be in contact with the process to obtain correct temperature measurement. Fittings associated with the probe designs are related to the mounting technique required by your application. These sensors can be utilized in many different industries and applications. Probe sensors are ideal for immersion in processes.

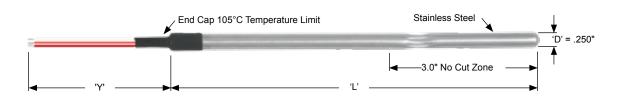
FEATURES

- Sheath Styles:
 - » Stainless Steel
- · Elements, Single and Dual: » Platinum, Copper, Nickel
- Sheath Diameters:
 - » 0.250"
- Leadwire/Cable Options

APPLICATIONS

Process

dimensions



= Sheath Length 'Y' = Leadwire/Cable Length

RTD Probe-Cut-To-Length

performance specifications

Repeatability:

Less than ± .06% change in ice point resistance after 10 consecutive cycles between ice point and 250°C

Long Term Stability:

Less than ± .2% ice point resistance shift after 1,000 hours at 250°C

Self Heating:

10 mW/C in water moving 3 feet/sec

Pressure Rating:

1,500 psi

Insulation Resistance:

1,000 megohms @ 500 V, leads to case

Vibration:

Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

Shock:

Withstands 50 g-level peak sine was shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

RTD Temperature Accuracy Specifications:

Element Material	TCR	Standard Tolerances at 0°C			
		±.06%	±.12%	±.2%	±.5%
Platinum	0.00385	0.15°C, 0.06Ω	0.30°C, 0.12Ω	0.50°C, 0.19Ω	1.20°C, 0.46Ω
Platinum	0.00392	N/A	N/A	N/A	1.20°C, 0.46Ω
Copper	0.00427	N/A	N/A	0.71°C, 0.028Ω	1.49°C, 0.058Ω
Nickel	0.00672	N/A	N/A	N/A	0.85°C, 0.68Ω

ordering info

RTD Probe-Cut-To-Length						
Model	Temperature Range					
104M	Moderate: -50 to 25	0°C (-58 to 482°F)				
Model	Element	Accuracy	Temperature Coefficient			
P2A	Platinum	100 Ohm ±.06% at 0°C	.00385			
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385			
P2C	Platinum	100 Ohm ±.5% at 0°C	.00385			
P6B	Platinum	1,000 Ohm ±.12% at 0°C	.00385			
G2C	Platinum	100 Ohm ±.5% at 0°C	.00392			
C1D	Copper	10 Ohm ±.2% at 25°C	.00427			
N3C	Nickel	120 Ohm ±.5% at 0°C	.00672			
Model	Leadwires, Elemen	t Configuration	Typical Color Code			
3S	Three Wire, Single		Red/Red/White			
4S	Four Wire, Single		Red/Red/White/White			
3D	Three Wire, Dual		Red/Red/White // Black/Green/Green (M Only)			
Model	'L' Sheath Length					
12	12.0"					
24	24.0"					
36	36.0"					
Model	'Y' Leadwire/Cable Options					
N	No Options, Stranded TFE Leadwires (36.0" Standard)					
W	Leadwire Options					

联系方式



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